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CALIFORNIA EARTH SCIENCE CORPORATION

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April 5, 1974

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Contract NAS 2-7698
MONTHLY PROGRESS REPORT NO. 10
March 1974

Fault Tectonics and Earthquake Hazards in the Peninsular
Ranges, Southern California, EREP Investigation 463

NASA, Ames Research Center
Mail Code 241-1
Moffett Field, CA 94035

Attention: Mr. Gabriel Fox
Contracting Officer

Gentlemen:

California Earth Science Corporation (CalESCO) is pleased to submit its 10th
Monthly Progress Report on the application of Skylab imagery to analysis of
fault tectonics and earthquake hazards in the Peninsular Ranges, southern
California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images
from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule of
the entire effort to be performed.

Significant Progress

1. 9" x 9" transparencies of part of the test site from SL3 were received.
2. SO-192 screening film of the area east of the Salton Sea from SL4 was received.
3. SL3 images from both 70-mm (S-190A) and 5"-roll (S-190B) film were generated.
4. The 5" image of the eastern Peninsular Ranges was split into two frames and three exposures of each frame were made in order to enhance specific areas of the image.
5. Additional RB 57 photos of the test site were received from NASA/JSC.
6. A seminar on remote sensing in geology was attended at NASA/ARC on March 7 and 8. P. M. Merifield presented a paper on the application of NASA-acquired

photography to the geologic structure of southern California. Numerous discussions were had with potential users of NASA data, for example, geologists with the California Division of Mines and Geology and the Department of Water Resources.

7. Field work was continued in the vicinity of the intersection of the San Andreas and Garlock faults, imaged by SL1/SL2.

Expected Accomplishments, Current Month

1. Special black-and-white enhancements of SL3 images will be continued.
2. Analysis of SL3 frames will be continued.
3. Work on technical reports will be continued.
4. Supporting studies will be continued.

Travel Summary and Plans

Field checks of faults images in SL1/SL2 and SL3 will continue during April.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORPORATION

Paul M. Merifield

Paul M. Merifield, Ph.D.

Principal Investigator

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